



## FSI and Microsoft .NET

Microsoft .NET is a new-generation technology, used for connecting information, people, systems and devices. It is based on small building-block applications that can connect to each other as well as to other, larger, applications over the Internet. There is no set programming language that you need to use with .Net. You can code in C, C++, Java, COBOL, VB, or any language of your choosing. The .NET Framework is the base that allows all these languages to be compiled into, what is known as, IL-Code (Intermediate-Language Code).

To stay abreast of the cutting-edge software development techniques made available by .NET, FSI takes considerable trouble to keep up-to-pace with the advances made in Microsoft .NET technologies. This has allowed us to cultivate a team of dedicated Microsoft .NET development engineers with intimate knowledge of the product and its capabilities. This is why we consider ourselves elite .NET providers.

### FSI's standard practices for .NET programming

FSI has detailed procedural guidelines for the development of programs in the C# language. These are in place to ensure the following:

- ▶ Avoidance of errors/bugs, especially the hard-to-find ones.
- ▶ Maintainability, by promoting some proven design principles.
- ▶ Maintainability, by requiring or recommending unity of coding style.
- ▶ Performance, by dissuading wasteful and inefficient coding practices.

Further standards are in place for the governance of projects using .NET class libraries e.t.c.:

- ▶ Unmanaged code
- ▶ COM
- ▶ Multi-threading
- ▶ Localisation (languages, Unicode)
- ▶ Remoting
- ▶ WinForms
- ▶ Security



**FSI is a leading provider of Microsoft .NET technologies:**

|  |                         |
|--|-------------------------|
| ASP.NET                                    | Reflection              |
| Web Forms                                  | COM Interop             |
| Win Forms                                  | Security                |
| Web Services                               | .NET Windows Services   |
| Web Server Controls                        | SQL Server .NET         |
| ADO.NET                                    | Mobile Internet Toolkit |
| C#, managed/unmanaged C++                  |                         |
| WMI (Windows Management Interface) on .NET |                         |
| XML  |                         |

Our competence with .NET Framework technologies provides our developers with the resources needed to harness the potential of a wide range of programming languages and to integrate applications written in these different languages, thus protecting your investment in these technologies. The .NET framework also makes system development and maintenance straightforward, and Microsoft makes regular improvements in terms of performance, security, and reliability.

**Microsoft tools, industry standards and UK law.**

Many developers working with Microsoft technologies such as ASP.NET do not realise that to take the capabilities of these products at face value is not enough and that they may even be breaking the law in the UK if they do not take the trouble to become personally responsible for the code that they produce. Microsoft is wonderful for making code generation straightforward, but a deeper understanding of the implications of the code produced and how it should be manipulated in order to enhance accessibility and even search engine optimisation is frustratingly rare. At FSI we pride ourselves in making our Microsoft projects standards compliant and accessible. Owing to general industry practices these are value-added features which bring our clients the benefits of a more ethical and streamlined product. Nonetheless, we believe fervently that everyone should follow this code of practice and that, although our present practice brings financial rewards both to our clients and to ourselves, there are some things more important than money.

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